I-Corps Executive Summary Detail

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I-Corps Executive Summary ID : P-10438

Academic Institution : saqa/ atlatic international university

Entrepreneurial Lead : engineering electrical engineering electrical

Entrepreneurial Lead Email : tshingombefiston@gmail.com (mailto:tshingombefiston@gmail.com)

Entrepreneurial Lead Qualification : enginering electrical

Technical Lead : engineering electrical engineering electrical

Technical Lead Email : tshingombefiston@gmail.com (mailto:tshingombefiston@gmail.com)

Technical Lead Qualification : engineering electrical

I-Corps Mentor : engineering electrical engineering electrical

I-Corps Mentor Email : tshingombefiston@gmail.com (mailto:tshingombefiston@gmail.com)

I-Corps Mentor Qualification : engineering

Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI : PI of Record – submits proposal and manages award, but does not participate in the training

please select from the drop down below :

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming : By agreement with NSF

What is the IP status of this innovation : Not disclosed to tech transfer office

Brief Description of Technology (Intellectual Merit) :

v> Title: Application Trade Discovery: Job Education Research Methodology Operational Autodidactic Copilote Distance,unified system for lifelong talent development.

Key Description

• Domains: Vocational training, AIU curriculum, CPD systems, PCB implementation, microcontroller logic, and trade diagnostics

• Tools: Visual Basic logicgrammes, signal registers, PLC command circuits, ATM logic, and curriculum dashboards

• Frameworks: AIU career center, CPD Scotland, SAQA, NATED, RNF, SCIE, and trade company integration

Data Analysis

• Source Files: Michelin Thesis CTE experimental_fatigue_life.xlsx

• Metrics: Energy output, signal classification (linear/non-linear), grid stability, skill level tracking

• Signals: Career progression (junior/senior), award validation, curriculum mapping

• Metrics: Energy output, signal classification (linear/non-linear), grid equations, and total cost analysis.

Credential Record Tableaux Line (Extended Format)

Date Institution / Platform Item / Module Sale Price Amendment Final Cost Award / Certificate Library Usage Booking (Type & Duration) Booking Price Notes / Integration Points

2025-10-08 Shoprite / CNA / Elektor Elektor Starter Kit R450 -R90 R360 Electronics Fundamentals 3h Sixty60 Delivery (1h) Free GitHub

Brief Description of Commercial Applications (Broader Impacts) :

v> equations, and total cost analysis.

Credential Record Tableaux Line (Extended Format)

Date Institution / Platform Item / Module Sale Price Amendment Final Cost Award / Certificate Library Usage Booking (Type & Duration) Booking Price Notes / Integration Points

2025-10-08 Shoprite / CNA / Elektor Elektor Starter Kit R450 -R90 R360 Electronics Fundamentals 3h Sixty60 Delivery (1h) Free GitHub + SAQA/NQF dashboard

2025-10-08 GitHub Reward Model Deployment $120 -$40 $80 Contributor Badge 3h CI/CD Run (1h) Free GitHub + AGI Collaboration Record

Historiogram Equations for Behavioral Fusion

• Fusion of User Behavior: $$ F_{ui} = w_o O_{ui} + w_a A_{ui} + w_b B_{ui} $$ Where OuiO_{ui}, AuiA_{ui}, and BuiB_{ui} are order, following, and browsing counts; weights wo=1w_o = 1, wa=0.5w_a = 0.5, wb=0.5w_b = 0.5

• Cosine Similarity for User Fusion: $$ S_f(u,v) = \cos(\theta) = \frac{F_u \cdot F_v}{\|F_u\| \|F_v\|} $$

• Total Similarity Score: $$ S(u,v) = S_f(u,v) + S_{bid}(u,v) + S_{nb}(u,v) + S_{item}(u,v) $$

• Top-K Recommendation Set: $$ RS_u = \{i_1, i_2, ..., i_K\} $$ Where KK is the mean of historical orders for user uu

Total Cost Analysis Table

Category Sale Price Amendment Final Cost Booking Cost Net Cost

Starter Kit R450 -R90 R360 Free R360

Reward Deployment $120 -$40 $80 Free $80

AGI Collaboration & E-Commerce Integration

AGI in Human-Machine Collaboration

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Credential Record Tableaux Line Format

Date Institution / Platform Item / Module Sale Price Amendment Final

Cost Award / Certificate Reward Points Library Usage Booking (Type &

NSF I-Corps Executive Summary

To submit an Executive Summary, click on the "Submit New Application" button on the right. To access any Executive Summary you may have submitted before, see the list of past Executive Summaries below.

MY SUBMISSIONS

Search by Phrase | Submit New Application

Executive Summary ID	Academic Institution	Entrepreneurial Lead	Technical Lead	I-Corps Mentor	I-CORPS Program	Agency Applied To	Status	Submitted Date	Edit	View	Cohort
P-10438	saqa/ atlatic international university	engineering electrical engineering electrical	engineering electrical engineering electrical	engineering electrical engineering electrical	NSF PFI grantee	DHS	Declined	10/15/2025			
P-10307	atlantic international university and college degree	engineering electrical engineering electrical	tshingombe tshingombefiston		Not disclosed to tech transfer office	Other Agency	Declined	8/15/2025			
P-09948	Atlantic international university	engineering electrical engineering electrical	engineering electrical engineering electrical		Hub Sponsored	Other Agency	Declined	2/3/2025			
P-09874	Engineering electrical tshingombe	engineering electrical engineering electrical	engineering electrical engineering electrical		Hub Sponsored	Other Agency	Declined	12/19/2024			

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For technical questions or immediate assistance, please email: tip-ti-tech-support@nsf.gov (mailto:tip-ti-tech-support@nsf.gov) or call the NSF TIP Help Desk at (888) 988-6507

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